

SEQUENCE LISTING

<110> Frankard, Valerie

<120> Plants having increased yield and method for making the same

<130> 14546-00001-US

<150> PCT/EP2005/050874

<151> 2005-03-01

<150> EP 04100841.5

<151> 2004-03-01

<150> US 60/550,918

<151> 2004-03-05

<160> 5

<170> PatentIn version 3.3

<210> 1

<211> 1256

<212> DNA

<213> Arabidopsis thaliana

<400> 1
atggaacagc cgaagaaagt tgctgatagg tatctaaagc gagaggttct tggtaaggt 60
acttatggag tcgtcttcaa agctactgat acaaagaatg gagaaactgt agcgatcaag 120
aaaataagac ttggtaaaga gaaagaaggt gtgaatgtaa cagctcttag agaaatcaaa 180
ttacttaaag agcttaagca tccacatata attgagttga ttgatgcgtt tcctcacaag 240
gagaatttgc acatcgtgtt ttagttcatg gagactgatc tcgaaggagt tatccgagat 300
cgtaatctct atcttcgcc tggtgatgtc aaatcttacc tccaaatgtat attgaaaggt 360
cttgaatatt gccatggcaa atgggttctg cacagagata tgaagccaaa caacttgtt 420
ataggaccca atggacagct gaaacttgca gatttgggt tagcacgtat atttggtagc 480
ccaggtcgta agtttaccca ccaggtgttt gctagatgggt atagagcacc tgaactttt 540
tttggtgcaa aacaatatga tggtgcatgtt gatgtttggg ctgctggctg cattttgct 600
gaacttctat tacgcagacc atttcttcag ggaaacagtg atattgatca attaagcaaa 660
atctttgctg ccttgggac tccaaaagca gatcagtggc ctgacatgtat ctgccttcct 720
gattatgttag agtataatt tggccctgct cttctttac gttctttact cccaacgggtt 780
agtgaggatg ctttagattt gttgtcaaag atgttacacct atgaccccaa gtctagaata 840
tcgattcagc aggctctaaa acacaggtac ttcacatctg caccttcacc tactgaccct 900

ttaaagctcc caagaccagt ttccaagcaa gatgctaagt catctgatag taaacttcaa	960
gccattaaag tgctgtcacc agcacataag tttagaagag tgatgcctga ccgaggaaag	1020
tctggtaatg gttcaagga ccagagtgtt gatgtcatga gacaagctag ccatgatgga	1080
caagcaccaa tgtcttaga tttcaccatc ttagctgagc gccacccaaa ccgaccaacc	1140
atcaccagtg cagatagatc tcatctgaag aggaaacttg atctcgagtt cctataggat	1200
atcgctaac aggcttcttc ttgacgtcgt tcttcaggaa cctatagcct atagga	1256

<210> 2
<211> 398
<212> PRT
<213> *Arabidopsis thaliana*

<400> 2

Met Glu Gln Pro Lys Lys Val Ala Asp Arg Tyr Leu Lys Arg Glu Val			
1	5	10	15

Leu Gly Gln Gly Thr Tyr Gly Val Val Phe Lys Ala Thr Asp Thr Lys		
20	25	30

Asn Gly Glu Thr Val Ala Ile Lys Lys Ile Arg Leu Gly Lys Glu Lys		
35	40	45

Glu Gly Val Asn Val Thr Ala Leu Arg Glu Ile Lys Leu Leu Lys Glu		
50	55	60

Leu Lys His Pro His Ile Ile Glu Leu Ile Asp Ala Phe Pro His Lys			
65	70	75	80

Glu Asn Leu His Ile Val Phe Glu Phe Met Glu Thr Asp Leu Glu Ala		
85	90	95

Val Ile Arg Asp Arg Asn Leu Tyr Leu Ser Pro Gly Asp Val Lys Ser		
100	105	110

Tyr Leu Gln Met Ile Leu Lys Gly Leu Glu Tyr Cys His Gly Lys Trp		
115	120	125

Val Leu His Arg Asp Met Lys Pro Asn Asn Leu Leu Ile Gly Pro Asn		
130	135	140

Gly Gln Leu Lys Leu Ala Asp Phe Gly Leu Ala Arg Ile Phe Gly Ser

145

150

155

160

Pro Gly Arg Lys Phe Thr His Gln Val Phe Ala Arg Trp Tyr Arg Ala
165 170 175

Pro Glu Leu Leu Phe Gly Ala Lys Gln Tyr Asp Gly Ala Val Asp Val
180 185 190

Trp Ala Ala Gly Cys Ile Phe Ala Glu Leu Leu Leu Arg Arg Pro Phe
195 200 205

Leu Gln Gly Asn Ser Asp Ile Asp Gln Leu Ser Lys Ile Phe Ala Ala
210 215 220

Phe Gly Thr Pro Lys Ala Asp Gln Trp Pro Asp Met Ile Cys Leu Pro
225 230 235 240

Asp Tyr Val Glu Tyr Gln Phe Val Pro Ala Pro Ser Leu Arg Ser Leu
245 250 255

Leu Pro Thr Val Ser Glu Asp Ala Leu Asp Leu Leu Ser Lys Met Phe
260 265 270

Thr Tyr Asp Pro Lys Ser Arg Ile Ser Ile Gln Gln Ala Leu Lys His
275 280 285

Arg Tyr Phe Thr Ser Ala Pro Ser Pro Thr Asp Pro Leu Lys Leu Pro
290 295 300

Arg Pro Val Ser Lys Gln Asp Ala Lys Ser Ser Asp Ser Lys Leu Glu
305 310 315 320

Ala Ile Lys Val Leu Ser Pro Ala His Lys Phe Arg Arg Val Met Pro
325 330 335

Asp Arg Gly Lys Ser Gly Asn Gly Phe Lys Asp Gln Ser Val Asp Val
340 345 350

Met Arg Gln Ala Ser His Asp Gly Gln Ala Pro Met Ser Leu Asp Phe
355 360 365

Thr Ile Leu Ala Glu Arg Pro Pro Asn Arg Pro Thr Ile Thr Ser Ala
370 375 380

Asp Arg Ser His Leu Lys Arg Lys Leu Asp Leu Glu Phe Leu
385 390 395

<210> 3
<211> 2193
<212> DNA
<213> Oryza sativa

<400> 3 aatccgaaaa gtttctgcac cgtttcacc ccctaactaa caatataggg aacgtgtgct 60
aaatataaaa tgagacctta tatatgttagc gctgataact agaactatgc aagaaaaact 120
catccaccta cttagtgcc aatcgggcta aataaaaaag agtcgctaca ctagttcg 180
tttccttagt aatTAAGTGG gaaaATGAAA tcattattgc ttGAATATA cgttcacatc 240
tctgtcatga agttaaatta ttcgaggtag ccataattgt catcaaactc ttcttgaata 300
aaaaaaatctt tctagctgaa ctcaatgggt aaagagagag atttttttta aaaaaataga 360
atgaagatAT tctgaacgta ttggcaaaga ttAAACATA taatttatata attttatagt 420
tttgtcattc gtcataatcgc acatcattaa ggacatgtct tactccatcc caattttat 480
tttagtaatta aagacaattt acttattttt attatttac ttTTTCGAT tagatgcaag 540
gtacttacgc acacactttg tgctcatgtg catgtgtgag tgcacccct caatacacgt 600
tcaacttagca acacatctct aatATCACTC gcctattaa tacatTTAGG tagcaatATC 660
tgaattcaag cactccacca tcaccagacc acttttaata atatctaaaa tacaaaaaat 720
aattttacag aatAGCATGA aaagtatgaa acgaactatt tagtttttc acataaaaaa 780
aaaaaaagaa ttttgctcggt ggcgcagcgc caatctccc tattggcac acaggcaaca 840
acagagtggc tgccccacaga acaacccaca aaaaacgatg atctaacgga ggacagcaag 900
tccgcaacaa ccttttaaca gcaggcttg cggccaggag agaggaggag aggcaaagaa 960
aaccaagcat cctccctc ccatctataa attcctcccc cctttcccc tctctatata 1020
ggaggcatcc aagccaagaa gagggagagc accaaggaca cgcgactagc agaagccgag 1080
cgaccgcctt ctgcgtatcca tatcttccgg tcgagttctt ggtcgatctc ttccctcctc 1140
cacccctcc tcacaggta tgtgccttc gttgttctt ggatttattt ttcttaggtt 1200
tgttagtacgg gcgttgatgt taggaaaggg gatctgtatc tgtgtatgatt cctgttctt 1260
gatttggat agaggggttc ttgatgttgc atgttatcg ttcggttga tttagtagt 1320
qgtttcaat cqtcqqaga qctctatqqa aatqaaatgg tttagggta cgttcgttgc 1380

gattttgtga gtaccttttgc ttggaggtaa aatcagagca ccggtgattt tgcttggtgt	1440
aataaaaagta cggttggtttgc gtcctcgattt ctggtagtga tgcttctcgat tttgacgaag	1500
ctatccttttgc tttattccctt attgaacaaa aataatccaa ctttgaagac ggtcccgttgc	1560
atgagattgat atgattgattt cttaaagccttgc tccaaaattt cgcagctggc ttgttttagat	1620
acagtagtcc ccatcacgaa attcatggaa acagttataa tcctcaggaa caggggatttgc	1680
cctgttcttc cgatttgctt tagtcccaga atttttttc ccaaatatct taaaaagtca	1740
ctttctgggtt cagttcaatg aattgattgc tacaaataat gcttttatag cgttatccta	1800
gctgttagttc agttaatagg taataccctt atagtttagt caggagaaga acttatccga	1860
tttctgatct ccatttttaa ttatatgaaa tgaactgttag cataaggagt attcatttgg	1920
attatttttt ttattagctc tcacccttc attattctga gctgaaagtc tggcatgaac	1980
tgtcctcaat tttgtttca aattcacatc gattatctat gcattatcctt cttgtatcta	2040
cctgtagaag tttcttttgc gttattcctt gactgcttgc ttacagaaag aaattttatga	2100
agctgtatc gggatagttt tactgcttgc ttctatgattt catttcctt gtgcagttct	2160
tttgttagct tgccacccat ttc accagcaaag ttc	2193

<210> 4
<211> 53
<212> DNA
<213> Artificial sequence

<220>
<223> primer prm2676

<400> 4 ggggacaagt ttgtacaaaa aagcaggctt cacaatggaa cagccgaaga aag	53
-----------------------------------------------------------------------	----

<210> 5
<211> 53
<212> DNA
<213> Artificial sequence

<220>
<223> primer prm2677

<400> 5 ggggaccact ttgtacaaaa aagctgggtc ctataggaac tcgagatcaa gtt	53
-----------------------------------------------------------------------	----